Rediscovery and redescription of the holotype of Mantella manery

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The Malagasy poison frog Mantella manery Vences, Glaw & Bohme, 1999 was described on the basis of color sildes of a specimen deposited in the collection of the Département de Biologie Animale, Université d'Antananiro, which is the only woucher of this species known to date. The holotype of this species was not available for morphological examination at the time of the description but has been rediscovered by us in 2004. Its been provide an updated description of Mantella manery, based on morphological examination of the holotype.

INTRODUCTION

The genus Muntella Boulenger. 1882 is composed of 15 species currently recognized (GLAW, & VENCES, 2003) These colorful diurnal animals are usually named Malagasy poison frogs (DAI), et al., 1996 and are important for the pet trade, ecotourism, and as flagship species (for conservation (BBIRA, 1993; ZIMMERMAN), 1996; VENCES et al., 2004) After GLAW & VENCES (1994) first mentioned and figured an unnamed species of Mantella from the Mariopy, Massif in north-eastern Madagascar, hobbysis have used various invalid (conditional) names to refer to this species, such as "Mantella majorey" or "Mantella mantella mantella material". To avoid an accidental description similar to the case of Mantella minlotympamin Stanis-zewski, 1996, the species was described as Mantella mantery by VENCES et al. (1999), based on photographs and field data only The holotype was said to be "a single-specimen of this species" ity, Madagascar" Because this specimen was not found in the Antamantrov collection, the original description of Mantella mantery was based "on color shdes of this specimen" alone (VENCES et al., 1999).

In a recent effort of contributing to the inventory of the herpetological collection in the Département de Biologie Animale, Université d'Antananarivo, Madagascar (UADBA), we

rediscovered the holotype of Mantella manery in February 2004. In the following we provide a redescription of this species and focus on the previously unavailable morphological features of the holotype. Terminology follows VENCES et al. (1999).

Mantella manery Vences, Glaw & Böhme, 1999

Mantella manery Vences, Glaw & Bohme, 1999 Name-bearing type holotype by original designation (VENCES et al. 1999, 15), its catalogue number here first reported as UADBA 7273

Usage of the name subsequent to the original description.
Mantella manery: VENCES et al., 1999, GLAW & VENCIS, 2000, 2003, SCHAEFER et al., 2002.

VENCES & GLAW, 2003.

Mantella manery n. sp. (1999): STAMSZEWSKI, 2001.

Morphology of holotype Adult specimen in moderate state of preservation. Several cuts through ventral skin for gonad examination. Some tissue removed from left femur for DNA extraction. Probably a male, but gonads not sufficiently recognizable due to poor preservation and dark color of inner organs. Body relatively stout for a Mantella; head clearly longer than wide, slighly narrower than body; snout rounded in dorsal and lateral views, nostrils directed laterally, very slightly protuberant; canthus rostralis distinct, concave; loreal region slightly concave; tympanum distinct, rounded, its diameter 57 % of eye diameter, supratympanic fold distinct, slightly curved; tongue narrow and longish-ovoid, very slightly notched posteriorly; vomerine and maxillary teeth absent. Forelimbs slender; subarticular tubercles single, inner and outer metacarpal tubercles distinct; fingers without webbing; comparative finger length 1 < 2

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3, finger discs moderately enlarged, nuptial pads absent. Hindlimbs slender, when hindlimbs are adpressed along body, the tibiotarsal articulation reaches the posterior eve corner; lateral (outer) metatarsalia strongly connected; a large inner and a distinct outer metatarsal tubercles; webbing between toes absent, comparative toe length 1 < 2 < 5 < 3 < 4. third toe clearly longer than fifth toe. Skin on dorsal surface, throat and chest smooth; slightly granular on venter, shanks ventrally granular, possibly marking an area of indistinct and not sharply delimited femoral glands.

Measurements of holotype—All in mm. Snout-sent length, 22.7 (estimated as 25 mm by Vincis et al. 1999), maximum head-width, 7.7; head length from tip of snout to maxillary articulation, 9.0; horizontal eye diameter, 2.8; horizontal typnanum diameter, 1.6, distance from anterior edge of eye to center of nostril, 1.9, distance from center of nostril to snout tip, 11; distance between centers of nostrils, 2.6; hand length, 6.0; forelimbelength, 14.4; hindlimb length, 31.8; foot length michaging larsus, 14.9; foot length, 9.6; tibb length, 10.4.

Color of holotype in hie – See Vences et al. (1999). Figure 320 in Glaw & Vences (1994) shows the ventral side of the holotype but is mirrored horizontally

Color of holotype in preservative - After almost 10 years, the pattern of the holotype is still fully recognizable (fig. 1). The greenish dorsal and blue ventral color has partly faded and is much less vivid than in life.

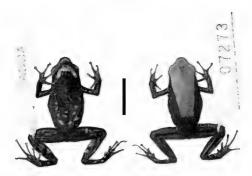


Fig 1 - Holotype of Muntella maners (UADBA 7273) in ventral and dorsal view, as photographed in February 20th, before the application of ventral cuts for gonad examination and tissue removal from shank muscle. The scale bar represents 10 mm.

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